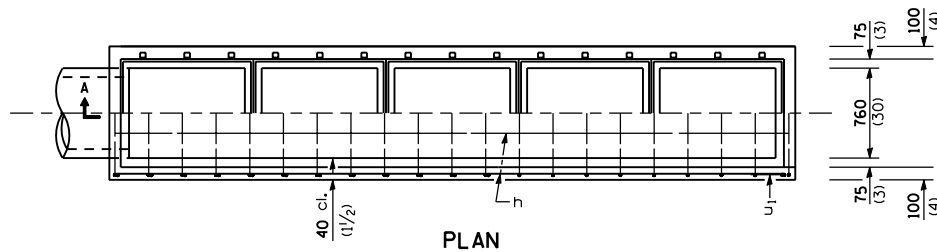
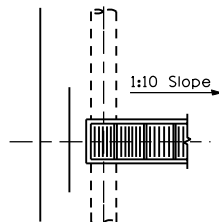


SECTION A-A

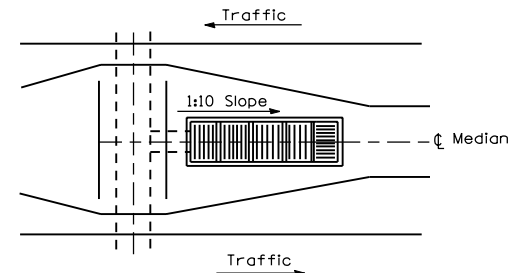
NOTE: Culvert pipe may exit from the side (or sides) by changing reinforcement bars in that area and in the headwall end of box.



PLAN



Detail showing exit from side (or sides)



Sketch showing location and direction of main bearing bars in relation to CL median (showing exit from end)

GENERAL NOTES

The dimensions of the steel angle frames shall be as shown except that the 89 mm (3 1/2") leg dimension may vary according to type of grating used. In all cases, the surface shall be flush with the top edge of frame, sidewalls, and headwall. All frames shall be galvanized and anchored in concrete. They shall be factory assembled and all joints shall be welded per detail.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

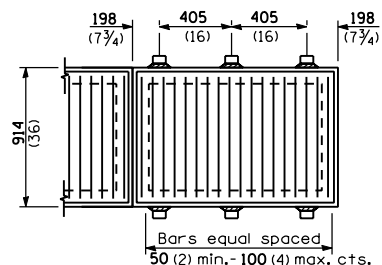
All dimensions are in millimeters (inches) unless otherwise shown.

DATE	REVISIONS
1-1-98	Rev. metric value
	from "330" to "585"
	and "50" to "300".
1-1-97	Renum. Standard 2358-4.

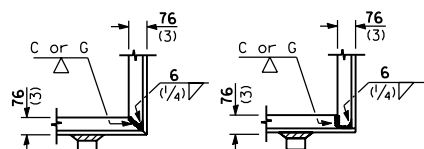
INLET BOX TYPE G
600 mm (24")

(Sheet 1 of 2)

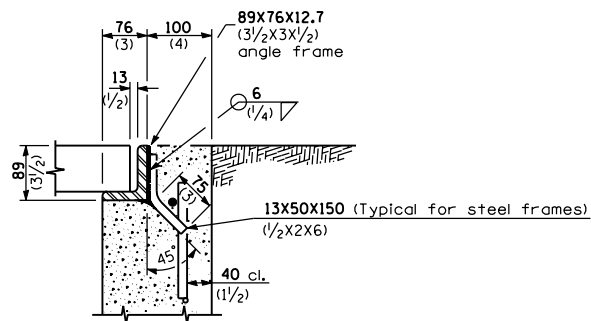
STANDARD 542531-01



TYPICAL STEEL GRATING



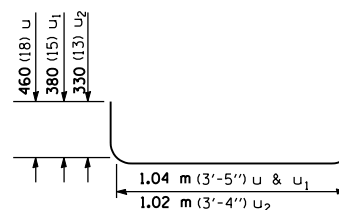
TYPICAL CORNER of STEEL GRATING FRAME



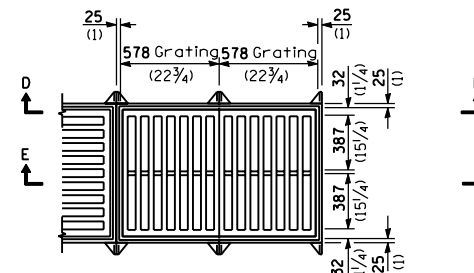
SECTION B-B

Material required for one inlet box

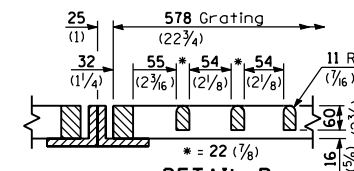
Bar	No.	Size	Length
h	10	No. 15 (No. 4)	6.10 m (20'-0")
u	17	No. 15 (No. 4)	1.96 m (6'-5")
u ₁	6	No. 15 (No. 4)	1.80 m (5'-11")
u ₂	1	No. 15 (No. 4)	1.68 m (5'-6")
v	2	No. 15 (No. 4)	840 (33)
v ₁	6	No. 15 (No. 4)	760 (30)
v ₂	10	No. 15 (No. 4)	610 (24)
v ₃	10	No. 15 (No. 4)	460 (18)
Concrete cast in place or precast		m ³ (cu. yds.)	2.45 (3.2)
Reinf. bars		kg (lbs.)	194 (270)
Grating		m ² (sq. ft.)	5.20 (56.0)



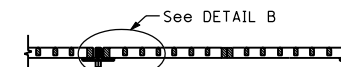
BARS u, u₁ & u₂



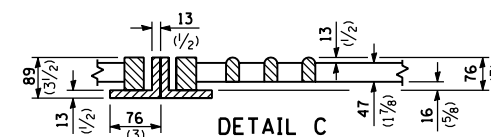
TYPICAL CAST GRATING



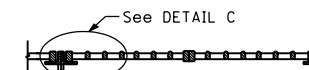
DETAIL B



SECTION D-D



DETAIL C



SECTION E-E

All dimensions are in millimeters (inches) unless otherwise shown.

INLET BOX TYPE G
600 mm (24")

(Sheet 2 of 2)

STANDARD 542531-01